

CLAIMS

What is claimed is:

1. A portable crane comprising:
a support structure comprising a first base member pivotally connected at a location between its two ends to an end of a first connecting member that is pivotally connected to a second connecting member at its other end and a second base member pivotally connected at a location between its two ends to the other end of said second connecting member and an adjustable locking member connected to said first connecting member between its two ends at one end and to the second connecting member between its two ends at the other end wherein said adjustable locking member can be adjusted to lock the position of the two base members at desired positions; and
a lifting means affixed to said support structure to lift a load;
wherein said portable crane can lift a load from the ground up to the rooftop.
2. A portable crane as in claim 1, wherein said base members are in the form of inverted U-shaped channels.
3. A portable crane as in claim 1, wherein said adjustable locking member is a telescoping member.
4. A portable crane as in claim 1, wherein said lifting means further comprising:
a support column affixed at one end to said support structure;
a boom with a free end and another end pivotally connected to the other end of the support column; and
a cable extending between the free end of said boom and a means to pull the cable.

5. A portable crane as in claim 4, wherein said support column has a first section and a second section wherein said first section may be inserted into said second section to form one rigid support column and may be separated for compact transportation and storage of the portable crane.

6. A portable crane as in claim 4, wherein said support column is a telescoping column that may be extended and contracted.

7. A portable crane as in claim 4, wherein said boom is a telescoping member that may be extended and contracted.

8. A portable crane as in claim 4, wherein said means to pull the cable is a winch.

9. A portable crane as in claim 8, wherein said winch is an electric winch.

10. A portable crane comprising:

a support structure comprising a first base member pivotally connected near an end of a first connecting member that is pivotally connected to a second connecting member at its other end and a second base member pivotally connected near the other end of said second connecting member and an adjustable locking member connected to said first connecting member between its two ends at one end and to said second connecting member between its two ends at the other end and a third base member pivotally connected near an end of a third connecting member that is pivotally connected to a fourth connecting member at its other end and a fourth base member pivotally connected near the other end of said fourth connecting member and a stabilizing member pivotally connected at one end to the connection between the first and second connecting member and at the other end to the connection between the third and fourth connecting member wherein said adjustable locking member can be adjusted to lock the position of the base members at desired positions; and

a lifting means affixed to said support structure to lift a load;

wherein said portable crane can lift a load from the ground up to the rooftop.

11. A portable crane as in claim 10, wherein said base members are in the form of inverted U-shaped channels.

12. A portable crane as in claim 10, wherein said adjustable locking member is a telescoping member.

13. A portable crane as in claim 10, wherein said lifting means further comprising:
a support column affixed at one end to said support structure;
a boom with a free end and another end pivotally connected to the other end of the support column; and
a cable extending between the free end of said boom and a means to pull the cable.

14. A portable crane as in claim 13, wherein said support column has a first section and a second section wherein said first section may be inserted into said second section to form one rigid support column and may be separated for compact transportation and storage of the portable crane.

15. A portable crane as in claim 13, wherein said support column is a telescoping column that may be extended and contracted.

16. A portable crane as in claim 13, wherein said boom is a telescoping member that may be extended and contracted.

17. A portable crane as in claim 13, wherein said means to pull the cable is a winch.

18. A portable crane as in claim 17, wherein said winch is an electric winch.

19. A portable crane comprising:

a support structure comprising a first base member pivotally connected near an end of a first connecting member that is pivotally connected to a second connecting member at its other end and a second base member pivotally connected near the other end of said second connecting member and an adjustable locking member connected to said first connecting member between its two ends at one end and to said second connecting member between its two ends at the other end and a third base member pivotally connected near an end of a third connecting member that is pivotally connected to a fourth connecting member at its other end with the other end of said fourth connecting member pivotally connected to said second base member and a stabilizing member pivotally connected at one end to the connection between the first and second connecting member and at the other end to the connection between the third and fourth connecting member wherein said adjustable locking member can be adjusted to lock the position of the base members at desired positions; and

a lifting means affixed to said support structure to lift a load;

wherein said portable crane can lift a load from the ground up to the rooftop.

20. A portable crane as in claim 19, wherein said base members are in the form of inverted U-shaped channels.

21. A portable crane as in claim 19, wherein said adjustable locking member is a telescoping member.

22. A portable crane as in claim 19, wherein said lifting means further comprising:
a support column affixed at one end to said support structure;
a boom with a free end and another end pivotally connected to the other end of the support column; and

a cable extending between the free end of said boom and a means to pull the cable.

23. A portable crane as in claim 22, wherein said support column has a first section and a second section wherein said first section may be inserted into said second section to form one rigid support column and may be separated for compact transportation and storage of the portable crane.

24. A portable crane as in claim 22, wherein said support column is a telescoping column that may be extended and contracted.

25. A portable crane as in claim 22, wherein said boom is a telescoping member that may be extended and contracted.

26. A portable crane as in claim 22, wherein said means to pull the cable is a winch.

27. A portable crane as in claim 26, wherein said winch is an electric winch.